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## ACIDIC PRECIPITATION IN ONTARIO STUDY

### ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION - DAILY PRECIPITATION AND AIR MONITORING NETWORK, 1983

Atmospheric Processes Studies Unit  
Air Quality Meteorology Section  
Ontario Ministry of the Environment  
Air Resources Branch  
330 Bay Street, 4th Floor  
Toronto, Ontario  
Canada, M5S 1Z8

July 1985

ARB-109-85-AQM  
API 022/85

A.P.J.O.S. Coordination Office  
Ontario Ministry of the Environment  
6th Floor, 40 St. Clair Avenue West  
Toronto, Ontario  
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Project Co-ordinator: Dr. T. G. Brydges

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**MINISTRY OF THE ENVIRONMENT  
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INTRODUCTION

PART I

## INTRODUCTION

This report was prepared by David Chung. The statistical summaries presented in this report pertain to the 1983 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) daily precipitation and air monitoring network. The relevant data are listed in previous reports, #ARB-043-85-AQM and #ARB-108-85-AQM. All available data are utilized in the calculations except results reported as being unreliable (i.e. results are identified as unreasonable values by using the validation procedures; detailed description of the validation procedures is available from the ministry upon request.) or approximate (i.e., inexact results are reported due to laboratory difficulties, such as that encountered in calibration, and that the sample cannot be re-analyzed to confirm the reported values). In a very few cases, concentration levels exceeded the upper limit of the range of the chemical analysis. Rather than using the upper limit, a decision was made to exclude these values from the statistics generated in this report. If a reported value is labelled as W, it is replaced by a "zero". W is the level which the analytical technique cannot distinguish from zero. If a level is recorded less than the detection limit T, a value corresponding to one half the detection limit is utilized for statistical calculations as reported in the statistical summaries.

The reported precipitation gauge depth (standard rain gauge or nipher shielded snow gauge) is utilized in the calculation of deposition. If a rain gauge value is not available then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

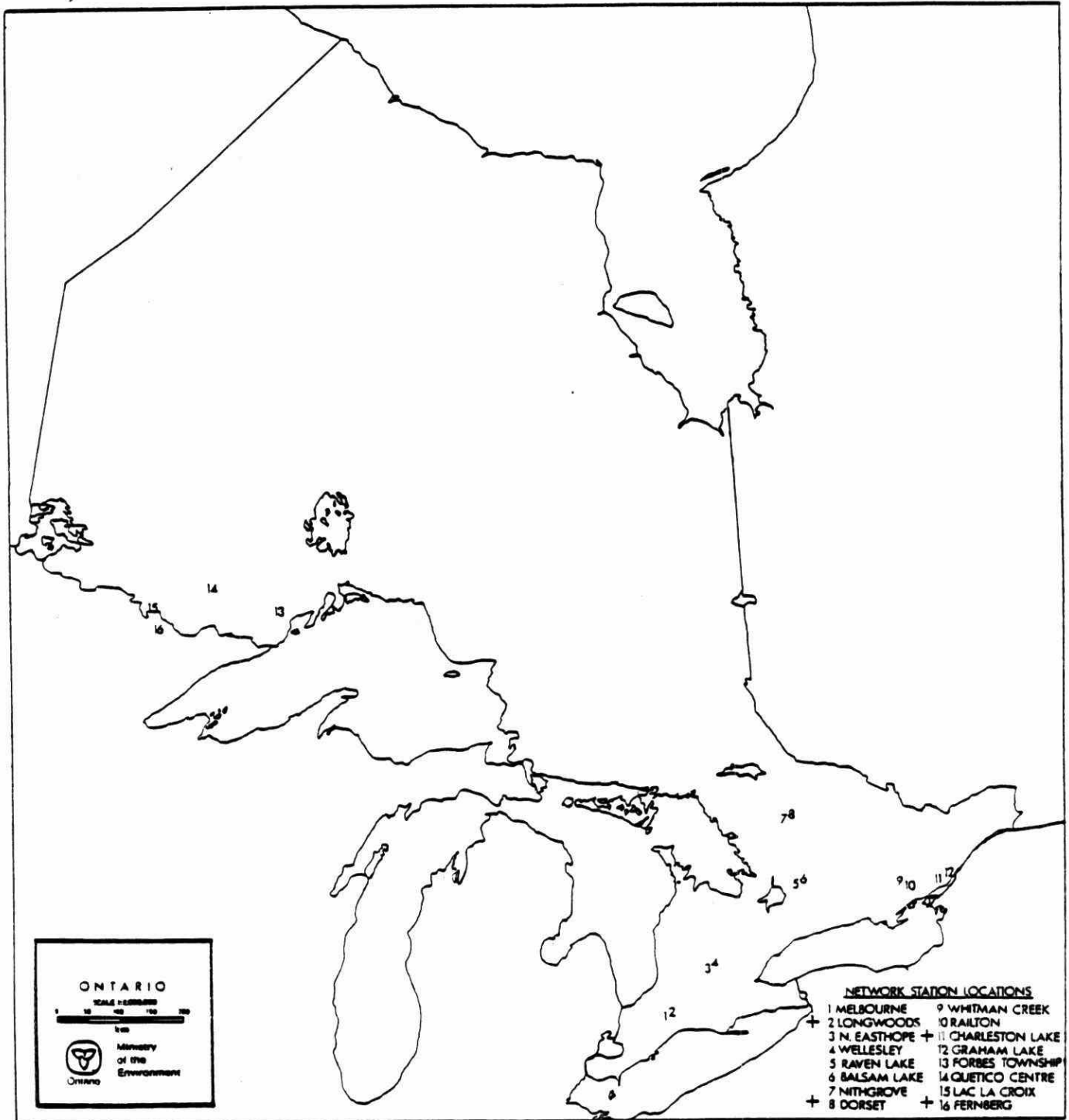
In the air concentration statistical summaries, "Nitric" represents "Nitric Acid" and "Totl NO<sub>3</sub>" represents total nitrates calculated by the summation of particulate "Nitrate" and "Nitric Acid".

The statistical summaries presented in Parts III to VII include the number of samples, mean (arithmetic/geometric), standard deviation (arithmetic/geometric), maximum, minimum and quartiles and volume weighted means using precipitation gauge depths where appropriate.

**PART II**

**STATION DESCRIPTION AND LOCATION MAP**

STATION SITE LOCATION MAP  
APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK \*



\* ALL SITES ARE PRECIPITATION MONITORING SITES. THOSE LABELLED WITH (+)  
ARE ALSO EQUIPPED WITH AIR MONITORING INSTRUMENTATION

**APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK SITE LOCATIONS \***

AREA	MOE REGION	STATION NAME	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM COORDINATES (Northing) (Easting)	
London	Southwestern	Longwoods Conservations Area *	239	42°53'02"	81°28'50"	4747600	460700
		Melbourne	213	42°47'15"	81°33'23"	4737100	454500
		North Easthope	375	43°24'21"	80°53'35"	4805650	508650
		Wellesley	344	43°28'13"	80°45'35"	4812700	519600
Dorset	Central	Dorset Laboratory *	320	45°13'23"	78°55'49"	5009600	662450
		Nithgrove	325	45°12'01"	79°04'14"	5006800	651600
		Balsam Lake Provincial Park	259	44°37'35"	78°51'22"	4943500	670170
		Raven Lake	274	44°36'40"	78°54'43"	4941550	665700
Kingston	Southeastern	Charleston Lake Provincial Park *	92	44°29'54"	76°02'30"	4927500	417150
		Graham Lake	130	44°35'22"	75°51'44"	4937450	431550
		Railton	156	44°22'34"	76°35'33"	4914700	373200
		Whitman Creek	137	44°29'07"	76°49'19"	4927200	355100
Thunder Bay	Northwestern	Fernberg *	506	47°56'51"	91°29'26"	5311000	612000
		Lac La Croix	368	48°21'14"	92°12'32"	5355900	558400
		Forbes Township	324	48°34'58"	89°38'56"	5384150	304800
		Quetico Centre	420	48°24'44"	91°12'08"	5399750	632100

\* All sites monitor precipitation concentrations. Sites labelled (\*) also monitor air concentrations.

**PART III**

**SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION**

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

-----

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

PERIOD OF REPORT : JAN 3,83 TO DEC 30,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	134.0	83.0	67.00	107.00	110.0000	109.00	108.000
MAXIMUM :	55.0	112.0	4.97	6.68	1.4840	12.80	6.200
MINIMUM :	0.1	3.8	3.69	3.30	0.0134	0.20	0.000
RANGE :	54.9	108.3	1.28	3.38	1.4706	12.60	6.200
ARITH. MEAN :	7.1	27.0	4.28	4.51	0.0930	2.70	0.566
ARITH. STD. DEV :	8.5	18.2	0.28	0.57	0.1492	2.25	0.686
GEOM. MEAN :	3.5	21.7	4.27	4.47	0.0652	1.96	0.380
GEOM. STD. DEV. :	3.9	2.0	1.07	1.13	2.1006	2.34	2.682
1ST QUARTILE :	1.4	14.8	4.09	4.12	0.0397	1.20	0.230
2ND QUARTILE :	4.2	24.2	4.24	4.41	0.0624	2.13	0.405
3RD QUARTILE :	8.8	35.1	4.48	4.68	0.1065	3.65	0.720
VOL. WGT. MEAN :	*****	22.8	*****	*****	0.0667	2.12	0.374

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

PERIOD OF REPORT : JAN 3,83 TO DEC 30,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	84.000	107.000	83.000	86.000	86.000	86.000	107.0000
MAXIMUM :	2.930	1.370	0.655	0.205	0.270	1.490	0.5012
MINIMUM :	0.030	0.020	0.000	0.000	0.000	0.000	0.0002
RANGE :	2.900	1.350	0.655	0.205	0.270	1.490	0.5010
ARITH. MEAN :	0.312	0.193	0.046	0.037	0.051	0.294	0.0554
ARITH. STD. DEV :	0.461	0.208	0.087	0.035	0.048	0.308	0.0677
GEOM. MEAN :	0.195	0.134	0.036	0.029	0.045	0.145	0.0312
GEOM. STD. DEV. :	2.404	2.317	2.710	2.461	2.323	5.097	3.6729
1ST QUARTILE :	0.110	0.070	0.012	0.020	0.020	0.078	0.0200
2ND QUARTILE :	0.165	0.140	0.020	0.030	0.037	0.198	0.0367
3RD QUARTILE :	0.340	0.215	0.047	0.042	0.060	0.405	0.0750
VOL. WGT. MEAN :	0.217	0.114	0.033	0.030	0.036	0.237	0.0415

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PERIOD OF REPORT : JAN 5,83 TO DEC 29,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	110.0	66.0	52.00	84.00	83.0000	85.00	85.000
MAXIMUM :	43.3	86.0	5.26	5.94	0.2040	7.45	1.650
MINIMUM :	0.1	1.6	3.78	3.78	0.0144	0.00	0.000
RANGE :	43.2	84.4	1.48	2.16	0.1896	7.45	1.650
ARITH. MEAN :	8.6	21.6	4.42	4.63	0.0630	2.15	0.392
ARITH. STD. DEV :	8.3	17.4	0.36	0.50	0.0423	1.81	0.356
GEOH. MEAN :	4.8	15.5	4.40	4.61	0.0512	1.49	0.267
GEOH. STD. DEV. :	3.6	2.4	1.08	1.11	1.9129	2.52	2.581
1ST QUARTILE :	2.1	7.6	4.13	4.28	0.0283	0.70	0.125
2ND QUARTILE :	6.3	15.3	4.44	4.55	0.0467	1.55	0.250
3RD QUARTILE :	12.1	31.3	4.66	4.90	0.0832	3.30	0.580
VOL. WGT. MEAN :	*****	18.5	*****	*****	0.0557	1.69	0.297

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PERIOD OF REPORT : JAN 5,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	76.000	83.000	76.000	76.000	76.000	76.000	84.0000
MAXIMUM :	0.810	1.440	0.160	0.110	0.200	0.910	0.1660
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.008	0.0011
RANGE :	0.810	1.440	0.160	0.110	0.200	0.902	0.1648
ARITH. MEAN :	0.146	0.117	0.024	0.023	0.046	0.238	0.0387
ARITH. STD. DEV :	0.147	0.172	0.025	0.022	0.046	0.218	0.0364
GEOM. MEAN :	0.101	0.099	0.023	0.022	0.050	0.138	0.0234
GEOM. STD. DEV. :	2.627	2.676	2.492	2.891	2.510	3.299	3.1687
1ST QUARTILE :	0.050	0.030	0.010	0.005	0.020	0.067	0.0126
2ND QUARTILE :	0.100	0.080	0.017	0.020	0.030	0.198	0.0282
3RD QUARTILE :	0.175	0.130	0.032	0.032	0.050	0.355	0.0525
VOL. WGT. MEAN :	0.109	0.078	0.017	0.017	0.037	0.190	0.0328

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORSET/DAILY/AEROCHEM

#08

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	164.0	87.0	79.00	122.00	126.0000	119.00	119.000
MAXIMUM :	44.2	142.0	4.90	6.13	0.5260	18.00	2.200
MINIMUM :	0.0	1.2	3.62	3.55	0.0174	0.20	0.000
RANGE :	44.2	140.8	1.28	2.58	0.5086	17.80	2.200
ARITH. MEAN :	6.5	26.3	4.27	4.50	0.0880	2.60	0.496
ARITH. STD. DEV :	7.8	21.2	0.28	0.48	0.0851	2.64	0.426
GEOM. MEAN :	2.8	19.7	4.26	4.47	0.0662	1.74	0.349
GEOM. STD. DEV. :	4.5	2.2	1.07	1.11	2.0474	2.52	2.771
1ST QUARTILE :	0.9	11.4	4.09	4.20	0.0382	0.90	0.160
2ND QUARTILE :	3.4	22.5	4.24	4.38	0.0671	1.72	0.385
3RD QUARTILE :	9.1	34.0	4.49	4.73	0.0994	3.45	0.670
VOL. WGT. MEAN :	*****	22.0	*****	*****	0.0704	1.97	0.363

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORSET/DAILY/AEROCHEM

#08

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	97.000	114.000	95.000	96.000	97.000	101.000	122.0000
MAXIMUM :	1.350	0.760	0.285	0.440	0.255	1.120	0.2818
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0007
RANGE :	1.350	0.760	0.285	0.440	0.255	1.120	0.2811
ARITH. MEAN :	0.204	0.184	0.035	0.047	0.068	0.255	0.0497
ARITH. STD. DEV :	0.246	0.149	0.043	0.053	0.056	0.260	0.0449
GEOM. MEAN :	0.128	0.142	0.025	0.043	0.058	0.145	0.0317
GEOM. STD. DEV. :	2.782	2.146	2.661	2.705	2.199	4.595	2.9994
1ST QUARTILE :	0.065	0.080	0.010	0.017	0.030	0.061	0.0176
2ND QUARTILE :	0.120	0.130	0.025	0.040	0.050	0.161	0.0422
3RD QUARTILE :	0.240	0.230	0.040	0.060	0.080	0.380	0.0624
VOL. WGT. MEAN :	0.170	0.124	0.028	0.035	0.051	0.204	0.0383

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PERIOD OF REPORT : JAN 4,83 TO DEC 14,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	76.0	50.0	0.00	61.00	67.0000	67.00	66.000
MAXIMUM :	90.6	21.7	*****	6.84	0.1526	5.05	0.970
MINIMUM :	0.1	2.2	*****	4.32	0.0144	0.02	0.000
RANGE :	90.5	19.5	*****	2.52	0.1382	5.02	0.970
ARITH. MEAN :	11.0	9.2	*****	5.34	0.0303	1.10	0.229
ARITH. STD. DEV :	13.1	4.6	*****	0.63	0.0182	0.92	0.209
GEOM. MEAN :	5.7	8.2	*****	5.31	0.0275	0.79	0.193
GEOM. STD. DEV. :	4.0	1.7	*****	1.12	1.4898	2.45	2.132
1ST QUARTILE :	2.6	5.6	*****	4.86	0.0206	0.45	0.100
2ND QUARTILE :	7.5	8.4	*****	5.22	0.0260	0.90	0.170
3RD QUARTILE :	14.8	10.8	*****	5.64	0.0355	1.38	0.265
VOL. WGT. MEAN :	*****	8.0	*****	*****	0.0259	0.89	0.174

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PERIOD OF REPORT : JAN 4,83 TO DEC 14,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	56.000	63.000	57.000	57.000	55.000	53.000	61.0000
MAXIMUM :	0.590	0.300	0.095	0.125	0.135	1.940	0.0479
MINIMUM :	0.000	0.000	0.000	0.005	0.000	0.010	0.0001
RANGE :	0.590	0.300	0.095	0.120	0.135	1.930	0.0477
ARITH. MEAN :	0.143	0.084	0.022	0.043	0.037	0.324	0.0091
ARITH. STD. DEV :	0.132	0.071	0.021	0.028	0.031	0.372	0.0096
GEOM. MEAN :	0.110	0.115	0.020	0.034	0.031	0.207	0.0045
GEOM. STD. DEV. :	2.201	1.979	2.140	2.209	2.560	2.713	4.2360
1ST QUARTILE :	0.060	0.035	0.010	0.022	0.020	0.124	0.0021
2ND QUARTILE :	0.100	0.070	0.015	0.035	0.030	0.208	0.0057
3RD QUARTILE :	0.165	0.100	0.025	0.060	0.045	0.376	0.0120
VOL. WGT. MEAN :	0.146	0.066	0.022	0.047	0.041	0.262	0.0072

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

PERIOD OF REPORT : JAN 15,83 TO DEC 29,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	106.0	52.0	0.00	62.00	66.0000	66.00	67.000
MAXIMUM :	48.6	48.2	*****	5.87	1.6580	7.50	1.320
MINIMUM :	0.1	2.4	*****	3.98	0.0164	0.00	0.000
RANGE :	48.5	45.8	*****	1.89	1.6416	7.50	1.320
ARITH. MEAN :	6.5	12.3	*****	4.97	0.0704	1.52	0.243
ARITH. STD. DEV :	9.1	9.4	*****	0.42	0.2118	1.45	0.252
GEOM. MEAN :	2.5	9.8	*****	4.96	0.0362	1.08	0.183
GEOM. STD. DEV. :	4.4	2.0	*****	1.09	2.1294	2.35	2.510
1ST QUARTILE :	0.8	5.7	*****	4.68	0.0245	0.57	0.080
2ND QUARTILE :	2.9	8.9	*****	5.03	0.0296	1.00	0.165
3RD QUARTILE :	7.4	13.9	*****	5.24	0.0384	1.77	0.285
VOL. WGT. MEAN :	*****	11.0	*****	*****	0.0813	1.19	0.167

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

PERIOD OF REPORT : JAN 15,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	56.000	66.000	56.000	57.000	56.000	59.000	62.0000
MAXIMUM :	0.580	0.250	0.130	0.090	0.185	1.550	0.1047
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0013
RANGE :	0.580	0.250	0.130	0.090	0.185	1.550	0.1034
ARITH. MEAN :	0.151	0.056	0.023	0.034	0.037	0.254	0.0167
ARITH. STD. DEV :	0.140	0.058	0.026	0.025	0.037	0.292	0.0185
GEOM. MEAN :	0.108	0.117	0.026	0.030	0.027	0.171	0.0106
GEOM. STD. DEV. :	2.532	2.717	2.645	2.487	2.891	3.019	2.6225
1ST QUARTILE :	0.060	0.000	0.008	0.015	0.015	0.060	0.0055
2ND QUARTILE :	0.090	0.040	0.015	0.030	0.025	0.150	0.0093
3RD QUARTILE :	0.230	0.085	0.030	0.050	0.055	0.330	0.0191
VOL. WGT. MEAN :	0.134	0.040	0.020	0.032	0.028	0.222	0.0136

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	121.0	69.0	54.00	82.00	92.0000	90.00	90.000
MAXIMUM :	36.1	154.0	5.77	6.41	0.4700	12.00	5.800
MINIMUM :	0.3	4.0	3.59	3.31	0.0156	0.25	0.030
RANGE :	35.8	150.0	2.18	3.10	0.4544	11.75	5.770
ARITH. MEAN :	8.4	26.3	4.46	4.64	0.0705	2.76	0.555
ARITH. STD. DEV :	8.1	27.0	0.46	0.58	0.0637	2.30	0.695
GEOM. MEAN :	4.9	18.4	4.44	4.60	0.0530	1.94	0.343
GEOM. STD. DEV. :	3.2	2.3	1.11	1.13	2.0926	2.45	2.765
1ST QUARTILE :	1.8	9.7	4.17	4.24	0.0300	1.00	0.160
2ND QUARTILE :	5.0	16.8	4.35	4.52	0.0529	2.25	0.390
3RD QUARTILE :	12.2	30.4	4.74	4.93	0.0944	3.55	0.725
VOL. WGT. MEAN :	*****	22.3	*****	*****	0.0584	2.16	0.358

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	75.000	90.000	75.000	74.000	76.000	71.000	82.0000
MAXIMUM :	1.710	2.450	0.300	0.270	0.435	2.180	0.4898
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.002	0.0004
RANGE :	1.710	2.450	0.300	0.270	0.435	2.178	0.4894
ARITH. MEAN :	0.252	0.243	0.045	0.062	0.095	0.333	0.0450
ARITH. STD. DEV :	0.326	0.330	0.059	0.059	0.108	0.315	0.0618
GEOM. MEAN :	0.147	0.149	0.026	0.041	0.075	0.221	0.0232
GEOM. STD. DEV. :	2.908	3.017	3.104	3.198	3.024	2.907	3.8456
1ST QUARTILE :	0.055	0.060	0.010	0.020	0.020	0.118	0.0116
2ND QUARTILE :	0.135	0.165	0.025	0.045	0.050	0.252	0.0302
3RD QUARTILE :	0.280	0.300	0.050	0.090	0.147	0.440	0.0550
VOL. WGT. MEAN :	0.167	0.127	0.031	0.038	0.052	0.282	0.0331

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

PERIOD OF REPORT : DEC 24,82 TO DEC 15,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	64.0	41.0	0.00	47.00	49.0000	51.00	51.000
MAXIMUM :	68.8	26.7	*****	6.90	0.1158	4.05	1.090
MINIMUM :	0.1	2.3	*****	4.33	0.0128	0.00	0.000
RANGE :	68.7	24.4	*****	2.57	0.1030	4.05	1.090
ARITH. MEAN :	10.1	10.6	*****	5.11	0.0365	1.14	0.246
ARITH. STD. DEV :	12.3	6.3	*****	0.60	0.0181	0.94	0.246
GEOM. MEAN :	5.0	8.8	*****	5.08	0.0330	0.79	0.178
GEOM. STD. DEV. :	3.7	1.9	*****	1.12	1.5601	2.82	3.230
1ST QUARTILE :	1.6	5.1	*****	4.66	0.0228	0.52	0.105
2ND QUARTILE :	5.9	9.8	*****	4.94	0.0333	0.88	0.165
3RD QUARTILE :	13.0	14.0	*****	5.42	0.0452	1.45	0.315
VOL. WGT. MEAN :	*****	9.4	*****	*****	0.0328	0.87	0.167

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

PERIOD OF REPORT : DEC 24,82 TO DEC 15,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	44.000	51.000	45.000	44.000	43.000	46.000	47.0000
MAXIMUM :	0.600	0.200	0.105	0.095	0.135	1.760	0.0468
MINIMUM :	0.005	0.000	0.002	0.000	0.000	0.001	0.0001
RANGE :	0.595	0.200	0.103	0.095	0.135	1.759	0.0466
ARITH. MEAN :	0.122	0.063	0.021	0.031	0.031	0.253	0.0136
ARITH. STD. DEV :	0.136	0.055	0.022	0.023	0.028	0.306	0.0113
GEOH. MEAN :	0.068	0.088	0.013	0.029	0.030	0.111	0.0077
GEOH. STD. DEV. :	3.229	2.453	2.647	2.539	2.472	5.232	4.0189
1ST QUARTILE :	0.040	0.020	0.008	0.015	0.008	0.040	0.0035
2ND QUARTILE :	0.070	0.050	0.010	0.030	0.022	0.175	0.0110
3RD QUARTILE :	0.160	0.100	0.025	0.045	0.040	0.312	0.0207
VOL. WGT. MEAN :	0.100	0.043	0.017	0.029	0.029	0.179	0.0125

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LONGHOODS/DAILY/AEROCHEM #02

PERIOD OF REPORT : JAN 6,83 TO DEC 22,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	117.0	69.0	47.00	83.00	95.0000	89.00	88.000
MAXIMUM :	43.6	67.0	4.79	6.34	0.3520	9.25	2.100
MINIMUM :	0.2	5.0	3.56	3.64	0.0106	0.65	0.010
RANGE :	43.4	62.0	1.23	2.70	0.3414	8.60	2.090
ARITH. MEAN :	8.1	28.6	4.13	4.39	0.0844	3.46	0.541
ARITH. STD. DEV :	8.6	13.9	0.29	0.40	0.0600	1.96	0.386
GEOM. MEAN :	4.2	25.2	4.12	4.38	0.0670	2.97	0.420
GEOM. STD. DEV. :	3.5	1.7	1.07	1.09	2.0351	1.78	2.221
1ST QUARTILE :	1.4	19.0	3.94	4.14	0.0424	2.20	0.305
2ND QUARTILE :	4.6	25.4	4.11	4.31	0.0724	3.07	0.440
3RD QUARTILE :	11.2	37.2	4.35	4.53	0.1048	4.10	0.700
VOL. WGT. MEAN :	*****	27.1	*****	*****	0.0747	3.03	0.400

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

PERIOD OF REPORT : JAN 6,83 TO DEC 22,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	73.000	87.000	76.000	79.000	78.000	77.000	83.0000
MAXIMUM :	1.520	1.000	0.310	0.210	0.515	1.540	0.2291
MINIMUM :	0.030	0.030	0.005	0.000	0.000	0.026	0.0005
RANGE :	1.490	0.970	0.305	0.210	0.515	1.514	0.2286
ARITH. MEAN :	0.365	0.231	0.066	0.053	0.078	0.359	0.0538
ARITH. STD. DEV :	0.310	0.184	0.060	0.036	0.082	0.282	0.0368
GEOH. MEAN :	0.266	0.177	0.047	0.044	0.053	0.272	0.0403
GEOH. STD. DEV. :	2.255	2.106	2.283	2.155	2.646	2.190	2.5269
1ST QUARTILE :	0.145	0.105	0.030	0.030	0.025	0.159	0.0282
2ND QUARTILE :	0.275	0.180	0.045	0.045	0.050	0.271	0.0473
3RD QUARTILE :	0.430	0.300	0.080	0.065	0.100	0.480	0.0700
VOL. WGT. MEAN :	0.274	0.161	0.050	0.041	0.058	0.327	0.0475

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

PERIOD OF REPORT : JAN 6,83 TO DEC 28,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	105.0	72.0	47.00	80.00	90.0000	86.00	88.000
MAXIMUM :	58.4	110.0	4.79	5.29	0.5580	8.60	2.100
MINIMUM :	0.3	5.6	3.30	3.61	0.0152	0.45	0.005
RANGE :	58.0	104.4	1.49	1.68	0.5428	8.15	2.095
ARITH. MEAN :	9.4	33.5	4.16	4.32	0.1054	3.50	0.618
ARITH. STD. DEV :	10.0	19.4	0.34	0.31	0.0936	1.86	0.446
GEOH. MEAN :	5.2	28.9	4.15	4.31	0.0823	2.98	0.470
GEOH. STD. DEV. :	3.3	1.7	1.09	1.07	1.9690	1.86	2.337
1ST QUARTILE :	2.2	20.2	3.91	4.11	0.0539	2.07	0.310
2ND QUARTILE :	5.2	29.1	4.17	4.31	0.0786	3.17	0.485
3RD QUARTILE :	12.9	41.6	4.34	4.44	0.1263	4.55	0.830
VOL. WGT. MEAN :	*****	29.0	*****	*****	0.0909	3.06	0.451

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

PERIOD OF REPORT : JAN 6,83 TO DEC 28,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H <sup>+</sup> LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	74.000	88.000	76.000	77.000	78.000	77.000	80.0000
MAXIMUM :	1.520	1.050	0.265	0.300	0.370	1.600	0.2455
MINIMUM :	0.040	0.000	0.005	0.000	0.000	0.040	0.0051
RANGE :	1.480	1.050	0.260	0.300	0.370	1.560	0.2403
ARITH. MEAN :	0.346	0.241	0.057	0.058	0.090	0.370	0.0599
ARITH. STD. DEV :	0.327	0.204	0.057	0.049	0.087	0.294	0.0424
GEOM. MEAN :	0.239	0.182	0.038	0.044	0.068	0.276	0.0478
GEOM. STD. DEV. :	2.364	2.264	2.528	2.575	2.682	2.215	2.0493
1ST QUARTILE :	0.120	0.100	0.020	0.027	0.030	0.153	0.0359
2ND QUARTILE :	0.225	0.195	0.035	0.050	0.057	0.272	0.0495
3RD QUARTILE :	0.410	0.310	0.065	0.070	0.123	0.505	0.0768
VOL. WGT. MEAN :	0.302	0.165	0.052	0.043	0.064	0.310	0.0493

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

PERIOD OF REPORT : JAN 4,83 TO DEC 30,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	128.0 <i>125</i>	80.0	61.00	97.00	106.0000	104.00	104.000
MAXIMUM :	311.9	151.0	5.05	6.93	0.3560	15.80	2.000
MINIMUM :	0.2 <i>0.2</i>	4.3	3.55	3.56	0.0154	0.15	0.000
RANGE :	311.7	146.7	1.50	3.37	0.3406	15.65	2.000
ARITH. MEAN :	10.2 <i>7.8</i>	23.9	4.25	4.64	0.0673	2.40	0.433
ARITH. STD. DEV :	27.8 <i>7.0</i>	19.9	0.30	0.62	0.0561	2.33	0.362
GEOM. MEAN :	5.0	18.8	4.23	4.60	0.0530	1.65	0.324
GEOM. STD. DEV. :	3.2	2.0	1.07	1.13	1.9612	2.45	2.485
1ST QUARTILE :	2.4	13.0	4.05	4.24	0.0327	1.05	0.160
2ND QUARTILE :	5.7	21.1	4.23	4.48	0.0569	1.70	0.355
3RD QUARTILE :	11.7	28.8	4.39	4.80	0.0796	3.30	0.610
VOL. WGT. MEAN :	*****	21.9	*****	*****	0.0614	2.00	0.350

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

-----

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

PERIOD OF REPORT : JAN 4,83 TO DEC 30,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	86.000	99.000	86.000	82.000	85.000	88.000	97.0000
MAXIMUM :	1.160	0.830	0.280	0.255	0.205	1.460	0.2754
MINIMUM :	0.010	0.005	0.000	0.005	0.000	0.000	0.0001
RANGE :	1.150	0.825	0.280	0.250	0.205	1.460	0.2753
ARITH. MEAN :	0.218	0.181	0.039	0.061	0.059	0.288	0.0425
ARITH. STD. DEV :	0.216	0.149	0.045	0.047	0.043	0.266	0.0427
GEOM. MEAN :	0.154	0.132	0.033	0.048	0.052	0.194	0.0229
GEOM. STD. DEV. :	2.325	2.347	2.300	2.017	2.008	2.761	4.2048
1ST QUARTILE :	0.100	0.075	0.015	0.030	0.030	0.098	0.0150
2ND QUARTILE :	0.145	0.130	0.025	0.047	0.045	0.193	0.0320
3RD QUARTILE :	0.250	0.230	0.040	0.072	0.077	0.405	0.0562
VOL. WGT. MEAN :	0.186	0.124	0.030	0.046	0.048	0.252	0.0392

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PERIOD OF REPORT : JAN 6,83 TO DEC 26,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	130.0	76.0	57.00	82.00	104.0000	99.00	102.000
MAXIMUM :	82.4	73.0	5.48	5.83	0.2960	10.00	2.100
MINIMUM :	0.2	2.6	3.60	3.60	0.0110	0.20	0.000
RANGE :	82.2	70.4	1.88	2.23	0.2850	9.80	2.100
ARITH. MEAN :	8.3	26.1	4.24	4.45	0.0739	3.13	0.559
ARITH. STD. DEV :	10.4	14.4	0.34	0.39	0.0541	1.95	0.492
GEOM. MEAN :	4.3	22.0	4.23	4.44	0.0585	2.53	0.402
GEOM. STD. DEV. :	3.5	1.9	1.08	1.09	2.0158	2.04	2.431
1ST QUARTILE :	1.7	15.7	4.04	4.18	0.0355	1.63	0.240
2ND QUARTILE :	4.6	23.7	4.23	4.39	0.0632	2.97	0.400
3RD QUARTILE :	11.0	35.1	4.43	4.69	0.0924	4.10	0.640
VOL. WGT. MEAN :	*****	23.9	*****	*****	0.0606	2.56	0.359

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PERIOD OF REPORT : JAN 6,83 TO DEC 26,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	80.000	94.000	78.000	79.000	80.000	78.000	82.0000
MAXIMUM :	1.080	0.910	0.300	0.215	0.470	1.110	0.2512
MINIMUM :	0.010	0.030	0.005	0.008	0.000	0.000	0.0015
RANGE :	1.070	0.880	0.295	0.207	0.470	1.110	0.2497
ARITH. MEAN :	0.255	0.207	0.049	0.058	0.093	0.336	0.0490
ARITH. STD. DEV :	0.217	0.163	0.048	0.043	0.093	0.227	0.0415
GEOM. MEAN :	0.189	0.159	0.035	0.046	0.067	0.284	0.0351
GEOM. STD. DEV. :	2.235	2.083	2.303	1.989	2.437	1.897	2.4765
1ST QUARTILE :	0.110	0.090	0.020	0.030	0.040	0.169	0.0197
2ND QUARTILE :	0.200	0.160	0.035	0.042	0.060	0.252	0.0403
3RD QUARTILE :	0.320	0.270	0.060	0.072	0.105	0.450	0.0638
VOL. WGT. MEAN :	0.225	0.145	0.040	0.045	0.066	0.305	0.0387

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : RAILTON/DAILY/AEROCHEM

#10

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UHHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	82.0	51.0	44.00	59.00	59.0000	62.00	62.000
MAXIMUM :	80.7	235.0	6.33	6.90	0.5480	23.50	3.700
MINIMUM :	0.2	3.0	3.35	3.54	0.0140	0.10	0.040
RANGE :	80.5	232.0	2.98	3.36	0.5340	23.40	3.660
ARITH. MEAN :	11.3	30.9	4.37	4.50	0.0876	3.58	0.568
ARITH. STD. DEV :	12.5	34.8	0.49	0.59	0.0870	4.17	0.604
GEOM. MEAN :	6.3	21.8	4.34	4.47	0.0648	2.31	0.380
GEOM. STD. DEV. :	3.5	2.3	1.11	1.13	2.1068	2.71	2.517
1ST QUARTILE :	2.4	11.9	4.10	4.10	0.0358	1.18	0.225
2ND QUARTILE :	7.8	22.4	4.34	4.42	0.0636	2.75	0.390
3RD QUARTILE :	16.2	37.6	4.56	4.74	0.1058	4.05	0.685
VOL. WGT. MEAN :	*****	23.5	*****	*****	0.0630	2.40	0.372

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : RAILTON/DAILY/AEROCHEM

#10

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	56.000	61.000	56.000	56.000	56.000	56.000	59.0000
MAXIMUM :	1.730	0.940	0.320	0.125	0.530	1.330	0.2884
MINIMUM :	0.010	0.005	0.000	0.000	0.000	0.020	0.0001
RANGE :	1.720	0.935	0.320	0.125	0.530	1.310	0.2883
ARITH. MEAN :	0.310	0.186	0.043	0.038	0.065	0.375	0.0550
ARITH. STD. DEV :	0.345	0.201	0.055	0.030	0.090	0.296	0.0564
GEOM. MEAN :	0.184	0.117	0.029	0.028	0.062	0.254	0.0316
GEOM. STD. DEV. :	2.911	2.719	2.913	2.740	2.800	2.717	3.9342
1ST QUARTILE :	0.090	0.050	0.010	0.015	0.020	0.168	0.0172
2ND QUARTILE :	0.180	0.115	0.025	0.037	0.042	0.313	0.0380
3RD QUARTILE :	0.400	0.205	0.060	0.050	0.072	0.530	0.0759
VOL. WGT. MEAN :	0.235	0.144	0.039	0.032	0.069	0.306	0.0390

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : RAVEN LAKE/DAILY/AEROCHEN #05

PERIOD OF REPORT : JAN 3,83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	144.0	90.0	73.00	116.00	123.0000	124.00	123.000
MAXIMUM :	29.4	120.0	5.06	6.26	0.5720	23.50	5.900
MINIMUM :	0.2	3.8	3.49	3.31	0.0122	0.05	0.005
RANGE :	29.2	116.2	1.57	2.95	0.5598	23.45	5.895
ARITH. MEAN :	6.4	29.4	4.21	4.50	0.0785	2.92	0.640
ARITH. STD. DEV :	6.6	21.2	0.31	0.50	0.0681	2.88	0.769
GEOM. MEAN :	3.5	22.7	4.20	4.47	0.0608	1.98	0.394
GEOM. STD. DEV. :	3.4	2.1	1.08	1.11	2.0286	2.63	2.961
1ST QUARTILE :	1.4	15.3	4.01	4.16	0.0360	1.20	0.220
2ND QUARTILE :	3.9	24.2	4.16	4.39	0.0625	2.07	0.490
3RD QUARTILE :	9.2	40.1	4.39	4.72	0.0946	3.97	0.820
VOL. WGT. MEAN :	*****	24.8	*****	*****	0.0746	2.34	0.435

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

PERIOD OF REPORT : JAN 3,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	99.000	122.000	99.000	99.000	97.000	101.000	116.0000
MAXIMUM :	2.850	2.000	0.670	0.165	0.375	1.460	0.4898
MINIMUM :	0.005	0.000	0.000	0.000	0.005	0.000	0.0005
RANGE :	2.845	2.000	0.670	0.165	0.370	1.460	0.4892
ARITH. MEAN :	0.329	0.235	0.047	0.042	0.069	0.323	0.0518
ARITH. STD. DEV :	0.428	0.277	0.079	0.035	0.058	0.303	0.0558
GEOM. MEAN :	0.191	0.169	0.037	0.035	0.051	0.204	0.0319
GEOM. STD. DEV. :	2.925	2.360	2.590	2.375	2.208	4.220	3.1383
1ST QUARTILE :	0.100	0.080	0.012	0.020	0.030	0.097	0.0188
2ND QUARTILE :	0.190	0.150	0.025	0.030	0.050	0.239	0.0412
3RD QUARTILE :	0.340	0.270	0.050	0.052	0.090	0.420	0.0692
VOL. WGT. MEAN :	0.258	0.142	0.035	0.038	0.055	0.280	0.0401

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PERIOD OF REPORT : FEB 20,83 TO DEC 22,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH0.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	92.0	54.0	0.00	53.00	59.0000	59.00	59.000
MAXIMUM :	62.2	30.0	*****	6.96	0.0626	5.40	0.870
MINIMUM :	0.1	1.5	*****	4.42	0.0152	0.00	0.000
RANGE :	62.1	28.5	*****	2.54	0.0474	5.40	0.870
ARITH. MEAN :	8.7	9.4	*****	5.27	0.0279	1.04	0.165
ARITH. STD. DEV :	10.9	5.9	*****	0.57	0.0106	0.95	0.143
GEOH. MEAN :	3.9	7.7	*****	5.24	0.0262	0.75	0.144
GEOH. STD. DEV. :	4.3	1.9	*****	1.11	1.4151	2.66	2.559
1ST QUARTILE :	1.3	4.7	*****	4.82	0.0200	0.30	0.055
2ND QUARTILE :	4.7	8.3	*****	5.18	0.0243	0.95	0.140
3RD QUARTILE :	12.0	11.9	*****	5.60	0.0325	1.30	0.220
VOL. WGT. MEAN :	*****	8.6	*****	*****	0.0278	0.90	0.139

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PERIOD OF REPORT : FEB 20,83 TO DEC 22,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	52.000	55.000	52.000	51.000	50.000	57.000	53.0000
MAXIMUM :	0.640	0.340	0.150	0.135	0.135	1.090	0.0380
MINIMUM :	0.005	0.000	0.000	0.000	0.000	0.000	0.0001
RANGE :	0.635	0.340	0.150	0.135	0.135	1.090	0.0379
ARITH. MEAN :	0.143	0.045	0.023	0.036	0.028	0.219	0.0097
ARITH. STD. DEV :	0.140	0.058	0.029	0.030	0.029	0.223	0.0089
GEOM. MEAN :	0.084	0.103	0.032	0.036	0.032	0.140	0.0054
GEOM. STD. DEV. :	3.226	2.779	3.018	2.719	2.558	3.527	3.7114
1ST QUARTILE :	0.050	0.000	0.005	0.011	0.010	0.063	0.0025
2ND QUARTILE :	0.080	0.030	0.010	0.030	0.020	0.138	0.0066
3RD QUARTILE :	0.220	0.060	0.032	0.047	0.035	0.319	0.0137
VOL. WGT. MEAN :	0.129	0.038	0.019	0.030	0.025	0.176	0.0096

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	125.0	74.0	59.00	100.00	107.0000	106.00	105.000
MAXIMUM :	51.9	64.0	5.05	6.64	0.3440	8.55	1.960
MINIMUM :	0.3	2.5	3.19	3.81	0.0088	0.10	0.000
RANGE :	51.6	61.5	1.86	2.83	0.3352	8.45	1.960
ARITH. MEAN :	8.5	25.0	4.14	4.48	0.0849	3.05	0.538
ARITH. STD. DEV :	8.9	13.4	0.43	0.52	0.0603	1.92	0.438
GEOM. MEAN :	4.8	21.1	4.12	4.45	0.0661	2.36	0.419
GEOM. STD. DEV. :	3.2	1.9	1.11	1.11	2.1130	2.31	2.170
1ST QUARTILE :	2.1	15.0	3.91	4.14	0.0404	1.63	0.235
2ND QUARTILE :	5.4	22.1	4.20	4.38	0.0675	2.80	0.400
3RD QUARTILE :	12.8	33.8	4.42	4.67	0.1168	4.15	0.685
VOL. WGT. MEAN :	*****	22.8	*****	*****	0.0682	2.35	0.353

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	89.000	105.000	88.000	91.000	91.000	83.000	100.0000
MAXIMUM :	1.140	0.660	0.455	0.185	0.710	1.190	0.1549
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0002
RANGE :	1.140	0.660	0.455	0.185	0.710	1.190	0.1547
ARITH. MEAN :	0.252	0.175	0.047	0.028	0.063	0.322	0.0502
ARITH. STD. DEV. :	0.254	0.137	0.062	0.029	0.085	0.243	0.0355
GEOM. MEAN :	0.174	0.146	0.034	0.034	0.043	0.242	0.0331
GEOM. STD. DEV. :	2.569	2.310	2.810	2.680	3.243	2.397	3.3449
1ST QUARTILE :	0.080	0.070	0.015	0.005	0.020	0.144	0.0214
2ND QUARTILE :	0.155	0.140	0.025	0.020	0.040	0.235	0.0422
3RD QUARTILE :	0.310	0.230	0.065	0.035	0.077	0.470	0.0733
VOL. WGT. MEAN :	0.216	0.119	0.037	0.022	0.044	0.269	0.0383

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

PERIOD OF REPORT : JAN 7,83 TO DEC 23,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	85.0	50.0	34.00	62.00	64.0000	62.00	64.000
MAXIMUM :	40.5	143.0	5.22	6.90	0.3180	17.80	1.680
MINIMUM :	0.9	5.4	3.51	3.63	0.0160	0.25	0.040
RANGE :	39.6	137.6	1.71	3.27	0.3020	17.55	1.640
ARITH. MEAN :	9.0	34.4	4.32	4.46	0.0861	3.53	0.580
ARITH. STD. DEV :	7.9	28.4	0.36	0.57	0.0665	3.18	0.456
GEOM. MEAN :	5.9	26.2	4.31	4.43	0.0670	2.55	0.413
GEOM. STD. DEV. :	2.7	2.1	1.09	1.12	2.0418	2.29	2.408
1ST QUARTILE :	2.4	16.3	4.03	4.11	0.0396	1.47	0.195
2ND QUARTILE :	6.8	24.3	4.34	4.39	0.0674	2.60	0.415
3RD QUARTILE :	13.4	42.1	4.55	4.65	0.1031	4.45	0.890
VOL. WGT. MEAN :	*****	29.6	*****	*****	0.0727	2.99	0.421

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

PERIOD OF REPORT : JAN 7,83 TO DEC 23,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	53.000	64.000	51.000	54.000	54.000	54.000	62.0000
MAXIMUM :	1.430	0.940	0.235	0.265	0.580	1.590	0.2344
MINIMUM :	0.010	0.000	0.000	0.005	0.000	0.001	0.0001
RANGE :	1.420	0.940	0.235	0.260	0.580	1.589	0.2343
ARITH. MEAN :	0.328	0.183	0.048	0.051	0.069	0.366	0.0576
ARITH. STD. DEV. :	0.330	0.181	0.051	0.043	0.094	0.322	0.0515
GEOM. MEAN :	0.204	0.156	0.033	0.039	0.070	0.236	0.0350
GEOM. STD. DEV. :	2.841	2.293	2.606	2.222	2.509	3.250	3.7135
1ST QUARTILE :	0.100	0.070	0.012	0.025	0.022	0.133	0.0202
2ND QUARTILE :	0.235	0.120	0.030	0.040	0.045	0.261	0.0403
3RD QUARTILE :	0.360	0.240	0.065	0.065	0.067	0.505	0.0750
VOL. WGT. MEAN :	0.222	0.136	0.035	0.039	0.048	0.324	0.0474

**PART IV**

**SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION**



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	570.0	340.0	280.00	442.00	465.0000	456.00	454.000
MAXIMUM :	311.9	151.0	5.06	6.93	1.4840	23.50	6.200
MINIMUM :	0.0	1.2	3.49	3.30	0.0122	0.05	0.000
RANGE :	311.9	149.8	1.57	3.63	1.4718	23.45	6.200
ARITH. MEAN :	7.4	26.7	4.25	4.53	0.0820	2.67	0.537
ARITH. STD. DEV :	14.8	20.2	0.29	0.54	0.0959	2.55	0.595
GEOM. MEAN :	3.6	20.7	4.24	4.50	0.0613	1.83	0.362
GEOM. STD. DEV. :	3.8	2.1	1.07	1.12	2.0415	2.49	2.737
1ST QUARTILE :	1.6	13.9	4.06	4.19	0.0360	1.05	0.195
2ND QUARTILE :	4.3	23.0	4.23	4.42	0.0625	1.95	0.400
3RD QUARTILE :	9.8	34.6	4.45	4.74	0.0974	3.60	0.725
VOL. WGT. MEAN :	*****	22.8	*****	*****	0.0683	2.10	0.380

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	366.000	442.000	363.000	363.000	365.000	376.000	442.0000
MAXIMUM :	2.930	2.000	0.670	0.440	0.375	1.490	0.5012
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0001
RANGE :	2.930	2.000	0.670	0.440	0.375	1.490	0.5011
ARITH. MEAN :	0.266	0.200	0.042	0.046	0.062	0.290	0.0500
ARITH. STD. DEV :	0.357	0.207	0.066	0.044	0.052	0.285	0.0537
GEOM. MEAN :	0.164	0.145	0.032	0.038	0.052	0.170	0.0295
GEOM. STD. DEV. :	2.662	2.294	2.571	2.446	2.195	4.170	3.4667
1ST QUARTILE :	0.090	0.080	0.010	0.020	0.030	0.080	0.0182
2ND QUARTILE :	0.150	0.140	0.025	0.035	0.045	0.200	0.0380
3RD QUARTILE :	0.290	0.235	0.045	0.060	0.080	0.410	0.0646
VOL. WGT. MEAN :	0.206	0.126	0.032	0.037	0.048	0.241	0.0397

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

-----

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : DEC 24,82 TO JAN 2,84

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	338.0	197.0	0.00	223.00	241.0000	243.00	243.000
MAXIMUM :	90.6	48.2	*****	6.96	1.6580	7.50	1.320
MINIMUM :	0.1	1.5	*****	3.98	0.0128	0.00	0.000
RANGE :	90.5	46.7	*****	2.98	1.6452	7.50	1.320
ARITH. MEAN :	8.8	10.4	*****	5.17	0.0419	1.21	0.221
ARITH. STD. DEV :	11.3	6.9	*****	0.57	0.1125	1.11	0.218
GEOM. MEAN :	3.9	8.6	*****	5.14	0.0304	0.85	0.174
GEOM. STD. DEV. :	4.3	1.9	*****	1.11	1.7055	2.57	2.578
1ST QUARTILE :	1.5	5.4	*****	4.74	0.0215	0.45	0.090
2ND QUARTILE :	4.8	8.5	*****	5.08	0.0278	0.90	0.160
3RD QUARTILE :	11.6	12.4	*****	5.44	0.0374	1.45	0.260
VOL. WGT. MEAN :	*****	9.2	*****	*****	0.0404	0.96	0.162

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : DEC 24,82 TO JAN 2,84

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H <sup>+</sup> LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	208.000	235.000	210.000	209.000	204.000	215.000	223.0000
MAXIMUM :	0.640	0.340	0.150	0.135	0.185	1.940	0.1047
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0001
RANGE :	0.640	0.340	0.150	0.135	0.185	1.940	0.1046
ARITH. MEAN :	0.141	0.062	0.022	0.037	0.034	0.262	0.0123
ARITH. STD. DEV :	0.137	0.063	0.024	0.027	0.032	0.301	0.0132
GEOM. MEAN :	0.092	0.106	0.022	0.032	0.030	0.155	0.0067
GEOM. STD. DEV. :	2.783	2.475	2.540	2.471	2.610	3.562	3.7381
1ST QUANTILE :	0.050	0.020	0.010	0.020	0.015	0.068	0.0035
2ND QUANTILE :	0.085	0.050	0.015	0.030	0.025	0.167	0.0082
3RD QUANTILE :	0.190	0.095	0.030	0.050	0.040	0.340	0.0178
VOL. WGT. MEAN :	0.128	0.048	0.020	0.035	0.031	0.211	0.0105

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	398.0	236.0	184.00	287.00	298.0000	299.00	301.000
MAXIMUM :	80.7	235.0	6.33	6.90	0.5480	23.50	5.800
MINIMUM :	0.1	1.6	3.35	3.31	0.0140	0.00	0.000
RANGE :	80.6	233.4	2.98	3.59	0.5340	23.50	5.800
ARITH. MEAN :	9.2	27.7	4.40	4.57	0.0752	2.91	0.517
ARITH. STD. DEV :	9.2	27.3	0.42	0.56	0.0652	2.91	0.550
GEOM. MEAN :	5.3	19.6	4.38	4.54	0.0575	1.97	0.340
GEOM. STD. DEV. :	3.2	2.3	1.10	1.12	2.0473	2.54	2.613
1ST QUARTILE :	2.3	10.8	4.11	4.20	0.0333	1.00	0.160
2ND QUARTILE :	6.3	20.6	4.38	4.47	0.0569	2.22	0.360
3RD QUARTILE :	13.1	35.9	4.66	4.80	0.0966	3.77	0.710
VOL. WGT. MEAN :	*****	22.9	*****	*****	0.0614	2.24	0.356

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,83 TO JAN 2,84

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	260.000	298.000	258.000	260.000	262.000	257.000	287.0000
MAXIMUM :	1.730	2.450	0.320	0.270	0.580	2.180	0.4898
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0001
RANGE :	1.730	2.450	0.320	0.270	0.580	2.179	0.4897
ARITH. MEAN :	0.249	0.183	0.039	0.043	0.069	0.321	0.0479
ARITH. STD. DEV :	0.298	0.241	0.050	0.044	0.089	0.290	0.0523
GEOM. MEAN :	0.148	0.128	0.027	0.031	0.063	0.201	0.0271
GEOM. STD. DEV. :	2.905	2.756	2.814	2.953	2.753	3.116	3.6550
1ST QUARTILE :	0.060	0.050	0.010	0.015	0.020	0.104	0.0153
2ND QUARTILE :	0.140	0.115	0.025	0.030	0.042	0.244	0.0339
3RD QUARTILE :	0.295	0.225	0.045	0.055	0.075	0.450	0.0631
VOL. WGT. MEAN :	0.177	0.119	0.030	0.030	0.052	0.269	0.0372

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	477.0	291.0	210.00	345.00	396.0000	380.00	383.000
MAXIMUM :	82.4	110.0	5.48	6.64	0.5580	10.00	2.100
MINIMUM :	0.2	2.5	3.19	3.60	0.0088	0.10	0.000
RANGE :	82.2	107.5	2.29	3.04	0.5492	9.90	2.100
ARITH. MEAN :	8.5	28.2	4.17	4.42	0.0866	3.27	0.563
ARITH. STD. DEV :	9.5	15.7	0.36	0.42	0.0685	1.92	0.443
GEOM. MEAN :	4.6	24.1	4.16	4.40	0.0675	2.67	0.426
GEOM. STD. DEV. :	3.3	1.8	1.09	1.09	2.0516	2.03	2.288
1ST QUARTILE :	1.8	17.5	3.93	4.16	0.0419	1.80	0.280
2ND QUARTILE :	4.9	25.3	4.18	4.34	0.0725	3.00	0.410
3RD QUARTILE :	12.8	37.1	4.40	4.60	0.1055	4.20	0.705
VOL. WGT. MEAN :	*****	25.6	*****	*****	0.0734	2.74	0.390

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 6,83 TO DEC 29,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	316.000	374.000	318.000	326.000	327.000	315.000	345.0000
MAXIMUM :	1.520	1.050	0.455	0.300	0.710	1.600	0.2512
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0002
RANGE :	1.520	1.050	0.455	0.300	0.710	1.600	0.2510
ARITH. MEAN :	0.301	0.212	0.054	0.048	0.080	0.346	0.0530
ARITH. STD. DEV. :	0.281	0.173	0.057	0.041	0.087	0.262	0.0390
GEOM. MEAN :	0.211	0.164	0.038	0.041	0.056	0.267	0.0383
GEOM. STD. DEV. :	2.401	2.204	2.517	2.428	2.815	2.178	2.6588
1ST QUARTILE :	0.110	0.090	0.020	0.020	0.030	0.157	0.0248
2ND QUARTILE :	0.200	0.170	0.035	0.040	0.055	0.264	0.0457
3RD QUARTILE :	0.370	0.270	0.070	0.060	0.100	0.470	0.0692
VOL. WGT. MEAN :	0.253	0.147	0.045	0.037	0.058	0.302	0.0433



**PART V**

**SUMMARY STATISTICS OF WET DEPOSITION BY STATION**

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

PERIOD OF REPORT : JAN 3, 83 TO DEC 30,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	134.0	67.0000	107.0000	110.0000	109.00	108.000	84.000
MAXIMUM :	55.0	3.0430	3.0146	2.6510	99.83	17.822	11.685
MINIMUM :	0.1	0.0292	0.0001	0.0043	0.66	0.000	0.265
RANGE :	54.9	3.0137	3.0145	2.6467	99.17	17.822	11.420
ARITH. MEAN :	7.1	0.5920	0.3472	0.5463	17.60	3.123	2.176
ARITH. STD. DEV :	8.5	0.4769	0.4291	0.5370	19.58	3.183	2.464
GEOH. MEAN :	3.5	0.4342	0.1569	0.3139	9.94	1.938	1.400
GEOH. STD. DEV. :	3.9	2.4034	5.1461	3.4857	3.20	3.091	2.483
1ST QUARTILE :	1.4	0.2784	0.0787	0.1854	4.59	1.114	0.728
2ND QUARTILE :	4.2	0.4993	0.1995	0.3583	10.42	2.363	1.352
3RD QUARTILE :	8.8	0.7315	0.4883	0.7604	20.72	3.828	2.522

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

PERIOD OF REPORT : JAN 3, 83 TO DEC 30,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	107.000	83.000	86.000	86.000	86.000
MAXIMUM :	5.500	2.685	1.650	2.475	16.512
MINIMUM :	0.060	0.000	0.000	0.000	0.000
RANGE :	5.440	2.685	1.650	2.475	16.512
ARITH. MEAN :	0.947	0.320	0.301	0.360	2.361
ARITH. STD. DEV :	0.865	0.452	0.353	0.376	2.824
GEOM. MEAN :	0.676	0.217	0.191	0.287	1.034
GEOM. STD. DEV. :	2.350	2.861	2.891	2.218	5.629
1ST QUARTILE :	0.428	0.081	0.097	0.160	0.633
2ND QUARTILE :	0.643	0.175	0.190	0.245	1.558
3RD QUARTILE :	1.185	0.343	0.315	0.405	3.062

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PERIOD OF REPORT : JAN 5, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	110.0	52.0000	84.0000	83.0000	85.00	85.000	76.000
MAXIMUM :	43.3	3.9498	2.1150	2.7911	105.64	16.464	6.176
MINIMUM :	0.1	0.0723	0.0015	0.0070	0.00	0.000	0.000
RANGE :	43.2	3.8775	2.1135	2.7841	105.64	16.464	6.176
ARITH. MEAN :	8.6	0.6715	0.3493	0.5948	17.74	3.120	1.254
ARITH. STD. DEV :	8.3	0.7456	0.3960	0.5609	19.25	3.389	1.156
GEOM. MEAN :	4.8	0.4260	0.1670	0.3663	10.45	1.877	0.858
GEOM. STD. DEV. :	3.6	2.6189	4.4713	3.1503	2.96	2.940	2.754
1ST QUARTILE :	2.1	0.2008	0.0790	0.2208	4.50	0.955	0.482
2ND QUARTILE :	6.3	0.4276	0.1976	0.4093	11.89	1.794	0.903
3RD QUARTILE :	12.1	0.7195	0.4696	0.7527	20.55	3.874	1.538

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PERIOD OF REPORT : JAN 5, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	83.000	76.000	76.000	76.000	76.000
MAXIMUM :	3.897	0.869	0.944	2.499	12.264
MINIMUM :	0.000	0.000	0.000	0.000	0.089
RANGE :	3.897	0.869	0.944	2.499	12.175
ARITH. MEAN :	0.831	0.191	0.200	0.433	2.184
ARITH. STD. DEV :	0.825	0.169	0.202	0.446	2.582
GEOM. MEAN :	0.621	0.169	0.153	0.364	1.205
GEOM. STD. DEV. :	2.655	2.310	3.004	2.547	3.099
1ST QUARTILE :	0.232	0.088	0.045	0.124	0.576
2ND QUARTILE :	0.538	0.136	0.123	0.310	1.233
3RD QUARTILE :	1.130	0.252	0.343	0.594	2.940

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORSET/DAILY/AEROCHEM

#08

PERIOD OF REPORT : JAN 1, 83 TO JAN 2, 84

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	164.0	79.0000	122.0000	126.0000	119.00	119.000	97.000
MAXIMUM :	44.2	2.6141	1.6094	4.9970	100.36	17.424	15.440
MINIMUM :	0.0	0.0564	0.0007	0.0192	0.10	0.000	0.000
RANGE :	44.2	2.5576	1.6087	4.9778	100.26	17.424	15.440
ARITH. MEAN :	6.5	0.7124	0.3140	0.5688	16.76	3.089	1.698
ARITH. STD. DEV :	7.8	0.5973	0.3197	0.6528	18.09	3.053	2.494
GEOM. MEAN :	2.8	0.5138	0.1579	0.3276	9.59	1.862	0.915
GEOM. STD. DEV. :	4.5	2.3256	4.4824	3.1414	3.12	3.241	3.138
1ST QUARTILE :	0.9	0.3033	0.0689	0.1577	4.03	0.895	0.438
2ND QUARTILE :	3.4	0.5238	0.2098	0.4148	8.38	2.227	0.803
3RD QUARTILE :	9.1	0.9368	0.4429	0.7498	25.10	4.433	1.984

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : DORSET/DAILY/AEROCHEM

#08

PERIOD OF REPORT : JAN 1, 83 TO JAN 2, 84

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	114.000	95.000	96.000	97.000	101.000
MAXIMUM :	4.246	2.509	1.728	2.316	13.587
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	4.246	2.509	1.728	2.316	13.587
ARITH. MEAN :	1.095	0.281	0.349	0.506	1.977
ARITH. STD. DEV :	0.880	0.400	0.354	0.467	2.323
GEOM. MEAN :	0.825	0.172	0.271	0.393	0.937
GEOM. STD. DEV. :	2.261	2.914	2.747	2.169	4.702
1ST QUARTILE :	0.483	0.077	0.115	0.208	0.326
2ND QUARTILE :	0.807	0.159	0.235	0.318	1.158
3RD QUARTILE :	1.320	0.285	0.436	0.588	2.754

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PERIOD OF REPORT : JAN 4, 83 TO DEC 14,83

PAGE : 1

	PRECIP.	FREE H+	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM
	MM	FIELD	LAB	TO PH8.3		AS N	
		MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	76.0	0.0000	61.0000	67.0000	67.00	66.000	56.000
MAXIMUM :	90.6	*****	0.6325	1.5583	54.36	10.872	23.556
MINIMUM :	0.1	*****	0.0008	0.0181	0.16	0.000	0.000
RANGE :	90.5	*****	0.6317	1.5402	54.20	10.872	23.556
ARITH. MEAN :	11.0	*****	0.0874	0.3193	10.41	2.045	1.902
ARITH. STD. DEV :	13.1	*****	0.1137	0.2780	10.44	1.942	3.353
GEOM. MEAN :	5.7	*****	0.0356	0.2186	5.92	1.364	0.971
GEOM. STD. DEV. :	4.0	*****	5.1871	2.6148	3.42	2.868	3.179
1ST QUARTILE :	2.6	*****	0.0170	0.1394	2.74	0.763	0.465
2ND QUARTILE :	7.5	*****	0.0460	0.2303	6.82	1.656	1.050
3RD QUARTILE :	14.8	*****	0.1173	0.3877	15.95	2.629	2.018

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PERIOD OF REPORT : JAN 4, 83 TO DEC 14,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	63.000	57.000	57.000	55.000	53.000
MAXIMUM :	5.796	3.624	4.830	5.555	27.180
MINIMUM :	0.000	0.000	0.029	0.000	0.124
RANGE :	5.796	3.624	4.801	5.555	27.056
ARITH. MEAN :	0.806	0.290	0.607	0.538	3.444
ARITH. STD. DEV :	1.088	0.510	0.864	0.940	4.333
GEOM. MEAN :	0.611	0.168	0.313	0.266	1.944
GEOM. STD. DEV. :	2.540	2.956	3.190	3.497	3.206
1ST QUARTILE :	0.151	0.063	0.131	0.082	1.074
2ND QUARTILE :	0.416	0.152	0.304	0.256	2.043
3RD QUARTILE :	0.891	0.291	0.671	0.582	4.456

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

PERIOD OF REPORT : JAN 15, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/H**2	FREE H+ LAB MG/H**2	TOTAL H+ TO PH8.3 MG/H**2	SULPHATE MG/H**2	NITRATE AS N MG/H**2	CALCIUM MG/H**2
# OF SAMPLES :	106.0	0.0000	62.0000	66.0000	66.00	67.000	56.000
MAXIMUM :	48.6	*****	0.7703	15.5852	72.90	8.060	8.990
MINIMUM :	0.1	*****	0.0014	0.0141	0.00	0.000	0.000
RANGE :	48.5	*****	0.7689	15.5710	72.90	8.060	8.990
ARITH. MEAN :	6.5	*****	0.1318	0.7573	11.11	1.544	1.438
ARITH. STD. DEV :	9.1	*****	0.1781	2.6015	15.26	1.789	1.917
GEOM. MEAN :	2.5	*****	0.0565	0.1885	5.41	0.882	0.705
GEOM. STD. DEV. :	4.4	*****	4.1534	4.0098	3.26	3.283	3.685
1ST QUARTILE :	0.8	*****	0.0231	0.0643	2.18	0.373	0.249
2ND QUARTILE :	2.9	*****	0.0553	0.1532	4.35	0.736	0.828
3RD QUARTILE :	7.4	*****	0.1269	0.4903	13.97	2.220	1.755

\*\*\*\*\* : INSUFFICIENT DATA  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

PERIOD OF REPORT : JAN 15, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	66.000	56.000	57.000	56.000	59.000
MAXIMUM :	3.960	1.550	2.028	2.028	14.580
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.960	1.550	2.028	2.028	14.580
ARITH. MEAN :	0.376	0.210	0.337	0.302	2.295
ARITH. STD. DEV :	0.701	0.305	0.428	0.438	3.367
GEOM. MEAN :	0.366	0.144	0.178	0.167	1.038
GEOM. STD. DEV. :	2.838	3.545	3.788	3.185	3.866
1ST QUARTILE :	0.000	0.036	0.068	0.059	0.372
2ND QUARTILE :	0.168	0.096	0.165	0.122	0.955
3RD QUARTILE :	0.411	0.237	0.470	0.347	2.762

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	121.0	54.0000	82.0000	92.0000	90.00	90.000	75.000
MAXIMUM :	36.1	3.1941	2.1784	2.8033	136.71	21.172	12.760
MINIMUM :	0.3	0.0090	0.0010	0.0110	0.80	0.160	0.000
RANGE :	35.8	3.1851	2.1774	2.7922	135.91	21.012	12.760
ARITH. MEAN :	8.4	0.6321	0.3169	0.5474	20.21	3.344	1.758
ARITH. STD. DEV :	8.1	0.7023	0.3982	0.6019	24.62	3.593	2.385
GEOM. MEAN :	4.9	0.3538	0.1385	0.3099	11.35	2.009	1.016
GEOM. STD. DEV. :	3.2	3.3023	4.8114	3.1849	3.01	2.899	2.752
1ST QUARTILE :	1.8	0.1669	0.0656	0.1310	5.26	1.000	0.478
2ND QUARTILE :	5.0	0.4046	0.1757	0.3563	11.28	1.866	0.915
3RD QUARTILE :	12.2	0.7676	0.3677	0.7069	21.74	4.557	1.748

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM      #12

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	90.000	75.000	74.000	76.000	71.000
MAXIMUM :	4.693	2.232	1.972	2.240	14.940
MINIMUM :	0.000	0.000	0.000	0.000	0.004
RANGE :	4.693	2.232	1.972	2.240	14.936
ARITH. MEAN :	1.186	0.324	0.405	0.553	3.155
ARITH. STD. DEV :	1.042	0.482	0.395	0.494	3.336
GEOM. MEAN :	0.830	0.182	0.287	0.450	1.775
GEOM. STD. DEV. :	2.621	2.828	2.658	2.468	3.570
1ST QUARTILE :	0.425	0.084	0.143	0.232	0.878
2ND QUARTILE :	0.900	0.146	0.275	0.401	1.794
3RD QUARTILE :	1.576	0.291	0.498	0.740	4.543

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

PERIOD OF REPORT : DEC 24, 82 TO DEC 15,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	64.0	0.0000	47.0000	49.0000	51.00	51.000	44.000
MAXIMUM :	68.8	*****	1.3723	2.3659	51.58	8.253	10.287
MINIMUM :	0.1	*****	0.0002	0.0211	0.00	0.000	0.044
RANGE :	68.7	*****	1.3721	2.3448	51.58	8.253	10.243
ARITH. MEAN :	10.1	*****	0.1600	0.4045	10.56	2.019	1.382
ARITH. STD. DEV. :	12.3	*****	0.2364	0.4113	10.59	1.939	1.847
GEOM. MEAN :	5.0	*****	0.0618	0.2512	5.70	1.184	0.648
GEOM. STD. DEV. :	3.7	*****	5.5248	2.9248	3.52	3.620	3.822
1ST QUARTILE :	1.6	*****	0.0256	0.1206	2.18	0.427	0.203
2ND QUARTILE :	5.9	*****	0.0778	0.2714	6.70	1.138	0.894
3RD QUARTILE :	13.0	*****	0.2097	0.5530	15.50	2.981	2.011

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

PERIOD OF REPORT : DEC 24, 82 TO DEC 15,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	51.000	45.000	44.000	43.000	46.000
MAXIMUM :	2.376	1.905	2.321	2.954	11.963
MINIMUM :	0.000	0.008	0.000	0.000	0.019
RANGE :	2.376	1.897	2.321	2.954	11.945
ARITH. MEAN :	0.522	0.224	0.385	0.392	2.284
ARITH. STD. DEV :	0.598	0.324	0.502	0.627	2.554
GEOM. MEAN :	0.453	0.120	0.223	0.222	0.913
GEOM. STD. DEV. :	2.527	3.057	3.323	3.176	5.734
1ST QUARTILE :	0.103	0.059	0.086	0.067	0.269
2ND QUARTILE :	0.289	0.097	0.171	0.136	1.367
3RD QUARTILE :	0.761	0.245	0.400	0.381	3.306

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

PERIOD OF REPORT : JAN 6, 83 TO DEC 22,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/H**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/H**2	SULPHATE MG/N**2	NITRATE AS N MG/H**2	CALCIUM MG/H**2
# OF SAMPLES :	117.0	47.0000	83.0000	95.0000	89.00	88.000	73.000
MAXIMUM :	43.6	3.7110	2.4518	3.5752	185.00	17.000	15.800
MINIMUM :	0.2	0.0973	0.0005	0.0106	1.05	0.062	0.039
RANGE :	43.4	3.6137	2.4513	3.5646	183.95	16.938	15.761
ARITH. MEAN :	8.1	1.0962	0.4919	0.7098	30.45	4.044	3.087
ARITH. STD. DEV :	8.6	0.8231	0.5074	0.7198	31.40	3.364	2.965
GEOM. MEAN :	4.2	0.8028	0.2573	0.3772	18.96	2.694	2.138
GEOM. STD. DEV. :	3.5	2.3495	4.0620	3.7921	2.88	2.910	2.507
1ST QUARTILE :	1.4	0.4234	0.1272	0.1949	10.39	1.753	1.290
2ND QUARTILE :	4.6	0.9634	0.2907	0.4111	21.24	2.936	2.200
3RD QUARTILE :	11.2	1.4863	0.7867	1.0708	39.11	5.648	3.672

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

PERIOD OF REPORT : JAN 6, 83 TO DEC 22,83

PAGE : 2

	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/L**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	87.000	76.000	79.000	78.000	77.000
MAXIMUM :	6.480	2.912	2.000	4.864	30.800
MINIMUM :	0.080	0.052	0.000	0.000	0.026
RANGE :	6.400	2.860	2.000	4.864	30.774
ARITH. MEAN :	1.634	0.569	0.449	0.643	3.747
ARITH. STD. DEV :	1.430	0.597	0.403	0.794	4.646
GEOM. MEAN :	1.144	0.384	0.322	0.388	2.249
GEOM. STD. DEV. :	2.443	2.391	2.404	2.819	2.921
1ST QUARTILE :	0.605	0.226	0.165	0.195	1.182
2ND QUARTILE :	1.253	0.341	0.307	0.375	2.237
3RD QUARTILE :	2.172	0.668	0.609	0.749	4.138

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

PERIOD OF REPORT : JAN 6, 83 TO DEC 28,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	105.0	47.0000	80.0000	90.0000	86.00	88.000	74.000
MAXIMUM :	58.4	14.5845	2.2717	13.9098	150.96	32.190	26.180
MINIMUM :	0.3	0.0584	0.0056	0.0152	0.36	0.030	0.144
RANGE :	58.0	14.5262	2.2661	13.8946	150.60	32.160	26.036
ARITH. MEAN :	9.4	1.3294	0.5488	0.9543	33.56	4.926	3.718
ARITH. STD. DEV :	10.0	2.2212	0.4957	1.5585	31.73	4.734	4.990
GEOM. MEAN :	5.2	0.7565	0.3380	0.5284	21.17	3.317	2.090
GEOM. STD. DEV. :	3.3	2.7227	3.0902	3.0737	2.88	2.728	2.828
1ST QUARTILE :	2.2	0.3831	0.1697	0.2467	9.18	1.962	1.000
2ND QUARTILE :	5.2	0.6613	0.3449	0.5421	19.99	3.285	1.899
3RD QUARTILE :	12.9	1.3781	0.8920	1.2911	51.88	6.354	3.314

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

PERIOD OF REPORT : JAN 6, 83 TO DEC 28,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	88.000	76.000	77.000	78.000	77.000
MAXIMUM :	9.312	5.049	2.057	3.984	20.570
MINIMUM :	0.000	0.012	0.000	0.000	0.122
RANGE :	9.312	5.037	2.057	3.984	20.448
ARITH. MEAN :	1.796	0.633	0.517	0.758	3.720
ARITH. STD. DEV :	1.650	0.908	0.481	0.762	4.045
GEOM. MEAN :	1.251	0.322	0.356	0.512	2.279
GEOM. STD. DEV. :	2.484	3.163	2.555	2.774	2.828
1ST QUARTILE :	0.809	0.152	0.179	0.237	1.138
2ND QUARTILE :	1.173	0.324	0.321	0.442	2.396
3RD QUARTILE :	2.226	0.612	0.669	1.091	4.754

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

PERIOD OF REPORT : JAN 4, 83 TO DEC 30,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/H**2	FREE H+ LAB MG/H**2	TOTAL H+ TO PH8.3 MG/H**2	SULPHATE MG/M**2	NITRATE AS N MG/H**2	CALCIUM MG/M**2
# OF SAMPLES :	128.0	61.0000	97.0000	106.0000	104.00	104.000	86.000
MAXIMUM :	311.9	2.4064	2.1483	2.7768	123.24	17.978	11.868
MINIMUM :	0.2	0.0544	0.0000	0.0078	0.32	0.000	0.204
RANGE :	311.7	2.3520	2.1483	2.7690	122.92	17.978	11.664
ARITH. MEAN :	10.2	0.7363	0.3358	0.5330	17.36	3.044	1.872
ARITH. STD. DEV :	27.8	0.5980	0.3847	0.5299	19.20	2.997	2.175
GEOM. MEAN :	5.0	0.5371	0.1357	0.3205	9.84	1.826	1.199
GEOM. STD. DEV. :	3.2	2.2985	6.5868	3.0654	3.18	3.284	2.502
1ST QUARTILE :	2.4	0.3321	0.0723	0.1669	4.45	0.904	0.602
2ND QUARTILE :	5.7	0.5357	0.2379	0.3808	9.29	2.093	1.159
3RD QUARTILE :	11.7	0.9998	0.3977	0.7076	26.06	4.330	2.291

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NITHGROVE/DAILY/AEROCHEM      #07

PERIOD OF REPORT : JAN 4, 83 TO DEC 30,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	99.000	86.000	82.000	85.000	88.000
MAXIMUM :	4.646	1.984	2.150	1.870	11.610
MINIUM :	0.019	0.000	0.073	0.000	0.000
RANGE :	4.627	1.984	2.076	1.870	11.610
ARITH. MEAN :	1.100	0.301	0.447	0.476	2.443
ARITH. STD. DEV :	0.847	0.354	0.309	0.406	2.376
GEOM. MEAN :	0.827	0.228	0.366	0.374	1.433
GEOM. STD. DEV. :	2.338	2.330	1.912	2.113	3.336
1ST QUARTILE :	0.519	0.103	0.236	0.205	0.614
2ND QUARTILE :	0.910	0.188	0.408	0.334	1.590
3RD QUARTILE :	1.306	0.363	0.522	0.576	3.550

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PERIOD OF REPORT : JAN 6, 83 TO DEC 26,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	130.0	57.0000	82.0000	104.0000	99.00	102.000	80.000
MAXIMUM :	82.4	3.4350	2.8571	4.5485	206.00	19.776	21.424
MINIMUM :	0.2	0.0119	0.0016	0.0109	0.36	0.000	0.156
RANGE :	82.2	3.4231	2.8555	4.5376	205.64	19.776	21.268
ARITH. MEAN :	8.3	0.9598	0.4016	0.5713	25.67	3.516	2.606
ARITH. STD. DEV :	10.4	0.8755	0.4484	0.6500	28.03	3.112	3.245
GEOM. MEAN :	4.3	0.6091	0.2107	0.3140	15.94	2.404	1.507
GEOM. STD. DEV. :	3.5	2.9931	4.1237	3.4174	2.95	2.764	2.878
1ST QUARTILE :	1.7	0.3958	0.1264	0.1508	9.18	1.605	0.742
2ND QUARTILE :	4.6	0.6236	0.2635	0.3363	16.00	2.585	1.407
3RD QUARTILE :	11.0	1.2196	0.4895	0.7506	33.54	4.634	3.583

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PERIOD OF REPORT : JAN 6, 83 TO DEC 26,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	94.000	78.000	79.000	80.000	78.000
MAXIMUM :	9.064	4.120	2.472	3.708	19.446
MINIMUM :	0.096	0.034	0.015	0.000	0.000
RANGE :	8.968	4.086	2.457	3.708	19.446
ARITH. MEAN :	1.473	0.466	0.510	0.741	3.501
ARITH. STD. DEV :	1.441	0.606	0.476	0.784	3.641
GEOM. MEAN :	1.039	0.274	0.352	0.484	2.190
GEOM. STD. DEV. :	2.327	2.783	2.479	2.663	2.866
1ST QUARTILE :	0.595	0.134	0.198	0.255	1.123
2ND QUARTILE :	0.988	0.259	0.362	0.516	2.184
3RD QUARTILE :	1.833	0.518	0.642	0.803	3.821

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : RAILTON/DAILY/AEROCHEM #10

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	82.0	44.0000	59.0000	59.0000	62.00	62.000	56.000
MAXIMUM :	80.7	2.4217	1.8848	2.7396	131.40	16.020	35.599
MINIMUM :	0.2	0.0055	0.0020	0.0115	0.72	0.072	0.138
RANGE :	80.5	2.4162	1.8829	2.7281	130.68	15.948	35.461
ARITH. MEAN :	11.3	0.8042	0.4933	0.8340	30.53	4.724	3.259
ARITH. STD. DEV :	12.5	0.6912	0.4600	0.6783	29.80	4.089	5.271
GEOM. MEAN :	6.3	0.5060	0.2553	0.5488	18.43	3.038	1.803
GEOM. STD. DEV. :	3.5	3.1854	4.3892	2.9132	3.08	2.892	2.818
1ST QUARTILE :	2.4	0.2795	0.1164	0.2553	9.76	1.536	0.920
2ND QUARTILE :	7.8	0.5380	0.3434	0.6228	20.87	3.063	1.776
3RD QUARTILE :	16.2	1.2801	0.7831	1.2049	41.76	6.644	2.918

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : RAILTON/DAILY/AEROCHEM #10

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	61.000	56.000	56.000	56.000	56.000
MAXIMUM :	27.525	11.744	2.047	19.451	30.094
MINIMUM :	0.049	0.000	0.000	0.000	0.236
RANGE :	27.475	11.744	2.047	19.451	29.858
ARITH. MEAN :	1.860	0.547	0.440	0.960	4.247
ARITH. STD. DEV :	3.605	1.570	0.475	2.638	5.079
GEOM. MEAN :	0.954	0.258	0.267	0.455	2.496
GEOM. STD. DEV. :	3.074	2.931	3.125	3.451	2.921
1ST QUARTILE :	0.428	0.119	0.134	0.152	1.299
2ND QUARTILE :	0.796	0.222	0.247	0.303	2.407
3RD QUARTILE :	2.131	0.414	0.605	0.827	5.683

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

PERIOD OF REPORT : JAN 3, 83 TO DEC 29,83

PAGE : 1

	PRECIP.	FREE H+	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM
	MM	FIELD	LAB	TO PH8.3		AS N	
		MG/M**2	MG/M**2	MG/H**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	144.0	73.0000	116.0000	123.0000	124.00	123.000	99.000
MAXIMUM :	29.4	2.8845	1.3663	8.5840	91.91	19.474	14.210
MINIMUM :	0.2	0.0401	0.0005	0.0076	0.09	0.048	0.034
RANGE :	29.2	2.8444	1.3658	8.5764	91.81	19.425	14.175
ARITH. MEAN :	6.4	0.6949	0.2983	0.5323	16.59	3.103	2.194
ARITH. STD. DEV :	6.6	0.5011	0.2954	0.8544	17.75	3.121	2.653
GEOM. MEAN :	3.5	0.5344	0.1493	0.2688	8.56	1.733	1.171
GEOM. STD. DEV. :	3.4	2.1986	4.3943	3.6309	3.74	3.590	3.335
1ST QUARTILE :	1.4	0.3363	0.0646	0.1128	3.51	0.952	0.566
2ND QUARTILE :	3.9	0.6022	0.2011	0.3214	9.92	2.142	1.141
3RD QUARTILE :	9.2	0.9358	0.4680	0.7302	24.57	4.244	2.837

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

PERIOD OF REPORT : JAN 3, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	122.000	99.000	99.000	97.000	101.000
MAXIMUM :	5.211	2.680	2.702	2.940	17.472
MINIMUM :	0.000	0.000	0.000	0.042	0.000
RANGE :	5.211	2.680	2.702	2.898	17.472
ARITH. MEAN :	1.014	0.301	0.321	0.473	2.339
ARITH. STD. DEV. :	0.967	0.435	0.430	0.502	2.744
GEOM. MEAN :	0.708	0.195	0.197	0.316	1.140
GEOM. STD. DEV. :	2.518	2.841	3.079	2.455	4.697
1ST QUARTILE :	0.381	0.072	0.091	0.179	0.454
2ND QUARTILE :	0.684	0.136	0.208	0.310	1.395
3RD QUARTILE :	1.400	0.379	0.369	0.533	3.189

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PERIOD OF REPORT : FEB 20, 83 TO DEC 22,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	92.0	0.0000	53.0000	59.0000	59.00	59.000	52.000
MAXIMUM :	62.2	*****	0.8924	1.4645	55.66	7.843	12.198
MINIMUM :	0.1	*****	0.0003	0.0157	0.00	0.000	0.070
RANGE :	62.1	*****	0.8920	1.4488	55.66	7.843	12.128
ARITH. MEAN :	8.7	*****	0.1204	0.3255	10.52	1.630	1.623
ARITH. STD. DEV :	10.9	*****	0.1523	0.2987	12.71	1.777	2.493
GEOM. MEAN :	3.9	*****	0.0476	0.2101	5.40	1.010	0.756
GEOM. STD. DEV. :	4.3	*****	5.6679	2.7570	3.30	3.151	3.425
1ST QUARTILE :	1.3	*****	0.0157	0.1071	2.42	0.364	0.317
2ND QUARTILE :	4.7	*****	0.0594	0.2242	5.43	0.991	0.819
3RD QUARTILE :	12.0	*****	0.1634	0.4600	13.27	2.164	1.383

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PERIOD OF REPORT : FEB 20, 83 TO DEC 22,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	55.000	52.000	51.000	50.000	57.000
MAXIMUM :	3.795	1.771	1.785	3.036	10.914
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.795	1.771	1.785	3.036	10.914
ARITH. MEAN :	0.464	0.242	0.378	0.324	2.116
ARITH. STD. DEV :	0.706	0.402	0.409	0.507	2.543
GEOH. MEAN :	0.463	0.195	0.278	0.241	1.084
GEOH. STD. DEV. :	2.773	2.991	2.852	2.635	3.805
1ST QUARTILE :	0.000	0.029	0.085	0.075	0.465
2ND QUARTILE :	0.195	0.150	0.218	0.183	1.074
3RD QUARTILE :	0.563	0.222	0.541	0.310	2.609

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	125.0	59.0000	100.0000	107.0000	106.00	105.000	89.000
MAXIMUM :	51.9	5.2948	1.7186	4.5336	151.70	16.650	23.108
MINIMUM :	0.3	0.0754	0.0007	0.0260	0.45	0.000	0.000
RANGE :	51.6	5.2194	1.7179	4.5076	151.25	16.650	23.108
ARITH. MEAN :	8.5	1.2573	0.3795	0.6411	22.05	3.339	2.336
ARITH. STD. DEV :	8.9	1.3444	0.3658	0.6659	22.33	2.650	3.390
GEOM. MEAN :	4.8	0.7353	0.2149	0.3942	13.93	2.461	1.284
GEOM. STD. DEV. :	3.2	2.9768	3.8270	2.9448	2.82	2.318	3.066
1ST QUARTILE :	2.1	0.3682	0.1206	0.2012	6.65	1.317	0.532
2ND QUARTILE :	5.4	0.7473	0.2619	0.4219	14.66	2.694	1.290
3RD QUARTILE :	12.8	1.5981	0.5044	0.8911	32.42	4.577	2.704

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	105.000	88.000	91.000	91.000	83.000
MAXIMUM :	6.290	3.922	1.568	2.800	14.430
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	6.290	3.922	1.568	2.800	14.430
ARITH. MEAN :	1.127	0.403	0.230	0.470	3.040
ARITH. STD. DEV :	1.063	0.589	0.284	0.543	2.682
GEOM. MEAN :	0.822	0.232	0.190	0.279	1.949
GEOM. STD. DEV. :	2.383	3.307	2.972	3.500	3.018
1ST QUARTILE :	0.393	0.083	0.038	0.088	1.024
2ND QUARTILE :	0.801	0.222	0.136	0.277	2.323
3RD QUARTILE :	1.518	0.457	0.300	0.634	4.023

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

PERIOD OF REPORT : JAN 7, 83 TO DEC 23,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	85.0	34.0000	62.0000	64.0000	62.00	64.000	53.000
MAXIMUM :	40.5	2.6715	2.3810	3.8381	156.45	15.249	12.584
MINIMUM :	0.9	0.0470	0.0002	0.0206	0.95	0.240	0.054
RANGE :	39.6	2.6245	2.3809	3.8175	155.51	15.009	12.530
ARITH. MEAN :	9.0	0.8647	0.4339	0.6426	28.07	3.854	2.276
ARITH. STD. DEV :	7.9	0.7535	0.4618	0.6622	30.64	3.681	2.240
GEOM. MEAN :	5.9	0.5764	0.2085	0.3793	16.31	2.533	1.527
GEOM. STD. DEV. :	2.7	2.6541	5.4522	3.1631	2.99	2.613	2.618
1ST QUARTILE :	2.4	0.3600	0.0995	0.2235	7.55	1.446	0.771
2ND QUARTILE :	6.8	0.4739	0.2591	0.4193	14.96	2.484	1.666
3RD QUARTILE :	13.4	1.3074	0.5765	0.8729	40.99	4.913	2.803

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

-----

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

PERIOD OF REPORT : JAN 7, 83 TO DEC 23,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	64.000	51.000	54.000	54.000	54.000
MAXIMUM :	8.892	2.024	1.290	2.436	16.000
MINIMUM :	0.000	0.000	0.018	0.000	0.011
RANGE :	8.892	2.024	1.272	2.436	15.989
ARITH. MEAN :	1.244	0.369	0.391	0.487	3.318
ARITH. STD. DEV :	1.429	0.410	0.315	0.511	3.595
GEOH. MEAN :	0.834	0.244	0.283	0.391	1.768
GEOH. STD. DEV. :	2.772	2.785	2.369	2.671	3.813
1ST QUARTILE :	0.345	0.129	0.160	0.102	0.868
2ND QUARTILE :	0.745	0.245	0.297	0.272	1.756
3RD QUARTILE :	1.740	0.479	0.484	0.780	4.507

**PART VI**

**SUMMARY STATISTICS OF WET DEPOSITION BY REGION**

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 83 TO JAN 2, 84

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	570.0	280.0000	442.0000	465.0000	456.00	454.000	366.000
MAXIMUM :	311.9	3.0430	3.0146	8.5840	123.24	19.474	15.440
MINIMUM :	0.0	0.0292	0.0000	0.0043	0.09	0.000	0.000
RANGE :	311.9	3.0137	3.0146	8.5797	123.14	19.474	15.440
ARITH. MEAN :	7.4	0.6842	0.3227	0.5456	17.05	3.091	1.983
ARITH. STD. DEV :	14.8	0.5460	0.3573	0.6620	18.56	3.080	2.460
GEOM. MEAN :	3.6	0.5034	0.1503	0.3063	9.43	1.835	1.149
GEOM. STD. DEV. :	3.8	2.3050	5.0320	3.3293	3.31	3.299	2.910
1ST QUARTILE :	1.6	0.3127	0.0729	0.1592	4.33	0.955	0.556
2ND QUARTILE :	4.3	0.5479	0.2128	0.3807	9.97	2.248	1.097
3RD QUARTILE :	9.8	0.9150	0.4494	0.7259	24.42	4.200	2.382

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 83 TO JAN 2, 84

PAGE : 2

	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	442.000	363.000	363.000	365.000	376.000
MAXIMUM :	5.500	2.685	2.702	2.940	17.472
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	5.500	2.685	2.702	2.940	17.472
ARITH. MEAN :	1.038	0.300	0.352	0.456	2.271
ARITH. STD. DEV. :	0.894	0.411	0.369	0.445	2.569
GEOM. MEAN :	0.754	0.201	0.245	0.341	1.116
GEOM. STD. DEV. :	2.375	2.745	2.772	2.260	4.579
1ST QUARTILE :	0.446	0.086	0.114	0.184	0.485
2ND QUARTILE :	0.780	0.160	0.244	0.306	1.410
3RD QUARTILE :	1.312	0.353	0.449	0.550	3.201

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : DEC 24, 82 TO JAN 2, 84

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	338.0	0.0000	223.0000	241.0000	243.00	243.000	208.000
MAXIMUM :	90.6	*****	1.3723	15.5852	72.90	10.872	23.556
MINIMUM :	0.1	*****	0.0002	0.0141	0.00	0.000	0.000
RANGE :	90.5	*****	1.3721	15.5710	72.90	10.872	23.556
ARITH. MEAN :	8.8	*****	0.1229	0.4581	10.66	1.800	1.597
ARITH. STD. DEV :	11.3	*****	0.1729	1.3945	12.42	1.863	2.499
GEOM. MEAN :	3.9	*****	0.0488	0.2139	5.61	1.092	0.768
GEOM. STD. DEV. :	4.3	*****	5.0852	3.0796	3.34	3.226	3.511
1ST QUARTILE :	1.5	*****	0.0210	0.1121	2.53	0.440	0.303
2ND QUARTILE :	4.8	*****	0.0552	0.2192	5.60	1.066	0.838
3RD QUARTILE :	11.6	*****	0.1612	0.4825	15.37	2.622	1.851

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : DEC 24, 82 TO JAN 2, 84

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	235.000	210.000	209.000	204.000	215.000
MAXIMUM :	5.796	3.624	4.830	5.555	27.180
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	5.796	3.624	4.830	5.555	27.180
ARITH. MEAN :	0.544	0.243	0.431	0.390	2.528
ARITH. STD. DEV :	0.818	0.396	0.595	0.663	3.314
GEOM. MEAN :	0.465	0.156	0.243	0.220	1.192
GEOM. STD. DEV. :	2.734	3.125	3.343	3.145	4.136
1ST QUARTILE :	0.067	0.052	0.093	0.072	0.531
2ND QUARTILE :	0.237	0.110	0.199	0.186	1.347
3RD QUARTILE :	0.630	0.247	0.493	0.408	3.306

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 83 TO JAN 2,84

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	398.0	184.0000	287.0000	298.0000	299.00	301.000	260.000
MAXIMUM :	80.7	3.9498	2.3810	3.8381	156.45	21.172	35.599
MINIMUM :	0.1	0.0055	0.0002	0.0070	0.00	0.000	0.000
RANGE :	80.6	3.9443	2.3809	3.8311	156.45	21.172	35.599
ARITH. MEAN :	9.2	0.7274	0.3879	0.6378	23.28	3.673	2.040
ARITH. STD. DEV :	9.2	0.7217	0.4283	0.6256	26.21	3.694	3.075
GEOM. MEAN :	5.3	0.4445	0.1813	0.3797	13.22	2.254	1.189
GEOM. STD. DEV. :	3.2	2.9787	4.7964	3.1538	3.06	2.880	2.844
1ST QUARTILE :	2.3	0.2409	0.0880	0.2162	6.39	1.105	0.607
2ND QUARTILE :	6.3	0.4440	0.2281	0.4402	13.35	2.304	1.095
3RD QUARTILE :	13.1	0.9266	0.5101	0.8250	28.16	4.925	2.514

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 83 TO JAN 2,84

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2.	MG/M**2
# OF SAMPLES :	298.000	258.000	260.000	262.000	257.000
MAXIMUM :	27.525	11.744	2.047	19.451	30.094
MINIMUM :	0.000	0.000	0.000	0.000	0.004
RANGE :	27.525	11.744	2.047	19.451	30.090
ARITH. MEAN :	1.238	0.342	0.350	0.592	3.140
ARITH. STD. DEV :	1.923	0.807	0.365	1.299	3.709
GEOM. MEAN :	0.788	0.204	0.234	0.412	1.704
GEOM. STD. DEV. :	2.780	2.727	2.925	2.741	3.408
1ST QUARTILE :	0.375	0.098	0.112	0.148	0.810
2ND QUARTILE :	0.739	0.170	0.235	0.341	1.733
3RD QUARTILE :	1.602	0.324	0.431	0.710	4.174



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	477.0	210.0000	345.0000	396.0000	380.00	383.000	316.000
MAXIMUM :	82.4	14.5845	2.8571	13.9098	206.00	32.190	26.180
MINIMUM :	0.2	0.0119	0.0005	0.0106	0.36	0.000	0.000
RANGE :	82.2	14.5726	2.8566	13.8992	205.64	32.190	26.180
ARITH. MEAN :	8.5	1.1567	0.4510	0.7104	27.57	3.913	2.901
ARITH. STD. DEV :	9.5	1.4011	0.4564	0.9590	28.56	3.540	3.729
GEOM. MEAN :	4.6	0.7171	0.2481	0.3928	17.05	2.674	1.686
GEOM. STD. DEV. :	3.3	2.7789	3.8060	3.3301	2.91	2.676	2.883
1ST QUARTILE :	1.8	0.3831	0.1380	0.2060	9.03	1.636	0.875
2ND QUARTILE :	4.9	0.7447	0.2938	0.4517	17.41	2.926	1.632
3RD QUARTILE :	12.8	1.4028	0.6146	0.9683	37.87	5.113	3.411

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 6, 83 TO DEC 29,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	374.000	318.000	326.000	327.000	315.000
MAXIMUM :	9.312	5.049	2.472	4.864	30.800
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	9.312	5.049	2.472	4.864	30.800
ARITH. MEAN :	1.490	0.513	0.419	0.646	3.493
ARITH. STD. DEV :	1.415	0.687	0.429	0.728	3.794
GEOM. MEAN :	1.040	0.295	0.291	0.399	2.159
GEOM. STD. DEV. :	2.434	2.969	2.757	3.032	2.900
1ST QUARTILE :	0.548	0.146	0.130	0.194	1.138
2ND QUARTILE :	1.052	0.280	0.280	0.391	2.316
3RD QUARTILE :	1.954	0.565	0.563	0.751	4.232

**PART VII**

**SUMMARY STATISTICS OF AIR CONCENTRATION BY STATION, REGION**

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CHARLESTON LAKE/DAILY/AIR

#11

PERIOD OF REPORT : JAN 4,83 TO JAN 1,84

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	302.0	302.00	302.00	282.000	301.00	301.00
MAXIMUM :	36.7	27.02	1.67	5.552	1.48	2.09
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	36.7	27.02	1.67	5.552	1.48	2.09
ARITH. MEAN :	5.3	3.74	0.33	0.850	0.18	0.50
ARITH. STD. DEV. :	5.8	4.37	0.34	1.008	0.25	0.45
GEOM. MEAN :	3.0	2.26	0.19	0.469	0.15	0.32
GEOM. STD. DEV. :	3.2	2.83	3.30	3.475	3.32	3.04
1ST QUARTILE :	1.3	1.13	0.09	0.228	0.03	0.15
2ND QUARTILE :	3.4	2.22	0.20	0.509	0.07	0.37
3RD QUARTILE :	7.3	4.55	0.47	1.074	0.23	0.73

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORSET/DAILY/AIR

#08

PERIOD OF REPORT : JAN 18,83 TO JAN 1,84

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	295.0	300.00	295.00	299.000	300.00	294.00
MAXIMUM :	37.6	31.07	2.41	5.821	0.74	2.44
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	37.6	31.07	2.41	5.821	0.74	2.44
ARITH. MEAN :	4.3	3.78	0.28	0.669	0.03	0.30
ARITH. STD. DEV. :	4.8	5.03	0.33	0.983	0.08	0.35
GEOM. MEAN :	2.2	2.03	0.15	0.290	0.22	0.17
GEOM. STD. DEV. :	3.9	3.14	3.27	4.426	4.79	3.14
1ST QUARTILE :	1.0	1.02	0.06	0.122	0.00	0.07
2ND QUARTILE :	2.9	1.86	0.14	0.269	0.00	0.16
3RD QUARTILE :	5.9	4.48	0.37	0.730	0.02	0.41

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : FERNBERG/DAILY/AIR

#16

PERIOD OF REPORT : JAN 1,83 TO DEC 13,83

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	180.0	188.00	188.00	185.000	188.00	188.00
MAXIMUM :	11.9	12.50	1.09	2.770	0.47	1.13
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	11.9	12.50	1.09	2.770	0.47	1.13
ARITH. MEAN :	0.9	1.42	0.11	0.262	0.02	0.13
ARITH. STD. DEV :	1.9	2.05	0.17	0.415	0.06	0.19
GEOM. MEAN :	0.4	0.78	0.11	0.153	0.18	0.11
GEOM. STD. DEV. :	4.8	3.51	3.43	3.663	4.71	3.34
1ST QUARTILE :	0.1	0.22	0.02	0.042	0.00	0.02
2ND QUARTILE :	0.3	0.80	0.05	0.111	0.00	0.06
3RD QUARTILE :	1.0	1.65	0.11	0.276	0.03	0.15

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LONGWOODS/DAILY/AIR

#02

PERIOD OF REPORT : JAN 1,83 TO DEC 21,83

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	334.0	336.00	337.00	299.000	336.00	336.00
MAXIMUM :	60.3	40.07	2.61	8.936	1.96	2.89
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	60.3	40.07	2.61	8.936	1.96	2.88
ARITH. MEAN :	8.5	5.63	0.48	1.222	0.39	0.87
ARITH. STD. DEV :	8.5	6.17	0.47	1.242	0.40	0.62
GEOM. MEAN :	5.3	3.65	0.30	0.767	0.25	0.63
GEOM. STD. DEV. :	3.0	2.60	3.04	2.942	3.33	2.53
1ST QUARTILE :	2.9	2.18	0.13	0.447	0.08	0.36
2ND QUARTILE :	6.3	3.52	0.30	0.806	0.28	0.75
3RD QUARTILE :	11.3	6.50	0.67	1.531	0.57	1.28

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